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File: JPAB

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TITLE: TILT SENSOR

Abstract Text (2):

SOLUTION: In a tilt sensor, metal balls 1 are interposed at a gap between light-receiving/emitting elements of a photo-interrupter for detecting an existence or non-existence of an object to be detected by receiving a light from an emitting element by a light-receiving element through a gap and a direction, an angle and so on are detected by a signal from a plurality of outputs by a position of the balls 1. In this case, a ball-accommodating portion of a mold body 4a accommodating the metal balls 1 is formed to an n-sided polygon ($n =$ an even number of 4 or more, for example, 4) and the number of the metal balls 1 is $n/2$ (quadrangle = 2). By forming the same number of light-receiving windows 7a, 7b as the number of the metal balls 1 on a light-receiving surface side of the mold body 4a, the metal balls 1 are moved by an inclination of the tilt sensor and shields the light-receiving windows 7a, 7b. Thereby, a detection of n directions (four or more directions) can be realized by one tilt sensor.

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